

FINAL METHODOLOGY REVIEW

Each year, the Scientific and Statistical Committee (SSC) and the Salmon Technical Team (STT) complete a methodology review to help assure that any new or significantly modified methods use the best available science to estimate impacts of the Council's salmon management. The methodology review is also used as a forum to review updated stock conservation objective proposals. The review is in preparation for the Council's adoption at the November meeting, of all anticipated methodology and conservation objective changes to be implemented in the coming season, or in certain limited cases, of providing directions for handling any unresolved methodology problems prior to the formulation of salmon management alternatives in March. Because there is insufficient time to review new or modified methods at the March meeting, the Council may reject their use if they have not been approved the preceding November.

At its September 2021 meeting, the Council approved four items for this year's methodology review:

- 1) Complete the documentation of the Chinook Fishery Regulation Assessment Model (FRAM) program and the development of the new Chinook base period, including algorithms and User Manual.
- 2) Evaluate post-season metrics of FRAM model performance.
- 3) Provide documentation of the abundance forecast approach used for Willapa Bay natural coho.
- 4) Review Oregon Production Index Hatchery forecast.

Technical documents related to each topic of review were submitted to the SSC Salmon Subcommittee and the STT prior to the methodology review meeting (Agenda Item F.1, Attachments 1-4).

The methodology review meeting of the SSC Salmon Subcommittee and the STT was held on October 20-21, 2021 via webinar. The results of the methodology review will be presented to the full SSC and the Council at the November Council meeting, where the Council is scheduled to approve new methodologies.

Council Action:

- 1. Approve new and modified methodologies and conservation objectives as appropriate.**
- 2. Provide guidance, as needed, for any unresolved methodology issues.**

Reference Materials:

1. Agenda Item F.1, Attachment 1: Updated Documentation of the Fishery Regulation Assessment Model (FRAM).

2. Agenda Item F.1, Attachment 2: Evaluation of post-season Chinook FRAM performance (*Electronic Only*).
3. Agenda Item F.1, Attachment 3: A proposed forecast methodology for natural-origin Willapa Bay Coho (*O. kisutch*). (*Electronic Only*).
4. Agenda Item F.1, Attachment 4: Oregon Production Index Hatchery forecast methodology summary.
5. If received, Public Comments are electronic only (see [e-portal](#)).

Agenda Order:

F.1 Final Methodology Review

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- a. Reports and Comments of Management Entities and Advisory Bodies
- b. Public Comment
- c. **Council Action:** Adopt Final Methodology Changes for 2022 and Beyond

PFMC
10/21/21